



**VIRGINIA DEPARTMENT OF HOUSING
AND COMMUNITY DEVELOPMENT**

Partners for Better Communities¹

Active Shooter and Hostile Threats in Public Buildings Study Group

December 8, 2021 Meeting

2021 Code Development Cycle



Cindy Davis, Deputy Director of Building and Fire Regulations

Jeff Brown, State Building Codes Office Director

Richard Potts, Code Development and Technical Support Administrator

Florin Moldovan, Code & Regulation Specialist

Paul Messplay, Code & Regulation Specialist

Jeanette Campbell, Administrative Assistant

Study Group members



- Jimmy Moss - VBCOA
- Rob Comet - AIA Va
- Ernie Little - VFPA
- Billy Hux - VDFP
- Mark Dreyer - DGS
- Patrick Green - VSP
- Frederick Presley - Stafford County
- Jim Crozier - Orange Co.
- James Garrett - City of Chesapeake
- Cmdr. Chris Kuyper - Roanoke County
- Jack Taylor - Nightlock
- Kurt Roeper - Door Hardware Institute
- Teri Morgan - VBPD

2021 code development cycle (tentative dates)



October 1st cdpVA was opened for submission of code change proposals for the 2021 Code Development Cycle

November 2021: Notices of Intended Regulatory Action (NOIRAs) Published

December 2021: Study Groups begin meeting

February 2022: Sub-Workgroups begin meeting

March-June 2022: Stakeholder Workgroup meetings

September 2022: BHCD meets to consider proposals

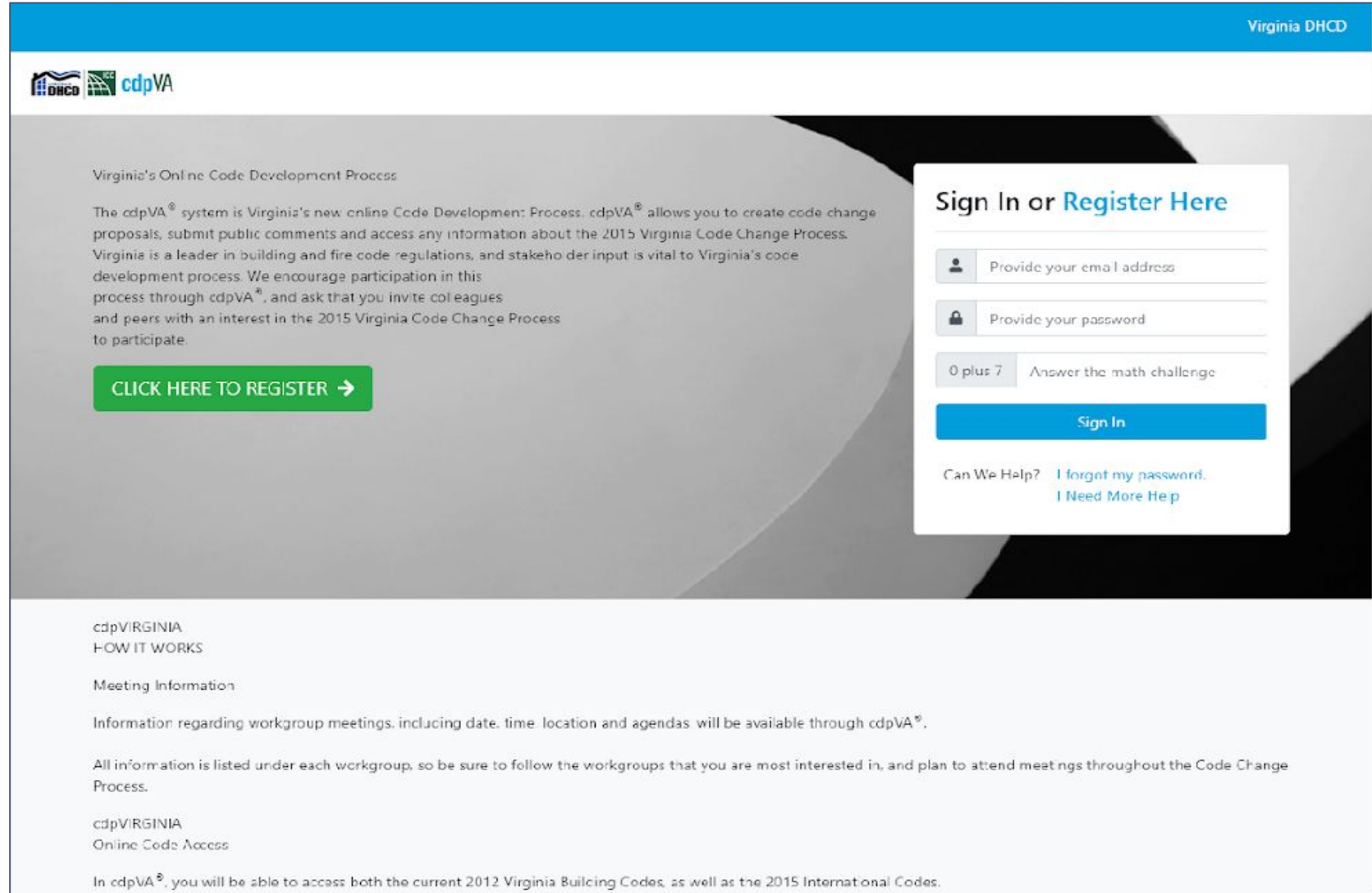
December 2022: BHCD considers proposed regulations

Fall/Winter 2023 = 2021 Virginia Codes Effective (Tentative)





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Virginia's online code development System (cdpVA)



Virginia DHCD


 


Virginia's Online Code Development Process

The cdpVA[®] system is Virginia's new online Code Development Process. cdpVA[®] allows you to create code change proposals, submit public comments and access any information about the 2015 Virginia Code Change Process. Virginia is a leader in building and fire code regulations, and stakeholder input is vital to Virginia's code development process. We encourage participation in this process through cdpVA[®], and ask that you invite colleagues and peers with an interest in the 2015 Virginia Code Change Process to participate.

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HOW IT WORKS

Meeting Information

Information regarding workgroup meetings, including date, time, location and agendas, will be available through cdpVA[®].

All information is listed under each workgroup, so be sure to follow the workgroups that you are most interested in, and plan to attend meetings throughout the Code Change Process.

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Online Code Access

In cdpVA[®], you will be able to access both the current 2012 Virginia Building Codes, as well as the 2015 International Codes.

- Study specific topics that require additional review and discussion
- Identify areas of consensus and disagreement
- Determine if code change proposals or other solutions are appropriate
- May review proposals, provide analysis, make recommendations, and/or develop code change proposals
- Proposals and recommendations of Study Groups are reviewed by the General Workgroups prior to BHCD consideration

- Review all code change proposals within their subject topics, prior to the proposals being considered by the General Workgroups
- Make recommendations on each proposal, including negotiating compromises where appropriate
- May also develop new code change proposals, or support proposals submitted by others by joining the proposal as a proponent

- All meetings are open to attendance and participation by anyone
- Review and discuss all submitted code change proposals, including all proposals and recommendations from Study Groups and Sub-Workgroups
- A workgroup recommendation is determined for each proposal and the recommendation is provided to the Board of Housing and Community Development
- Workgroup recommendations are classified as follows:

Consensus for Approval: No workgroup participant expressed opposition to the proposal

Consensus for Disapproval: Any workgroup participant expressed opposition to the proposal and no workgroup participant, other than the proponent, expressed support for the proposal.

Non-Consensus: Any workgroup participant expressed opposition to the proposal

SB 1755 directed DHCD to convene stakeholders to develop USBC and SFPC proposals, with the goal of assisting in the provision of safety and security measures for active shooter or hostile threats:

- Commonwealth's elementary and secondary schools
- Public or private institutions of higher education

SB 1755

The review conducted by the stakeholders shall include the examination of:

- locking devices,
- barricade devices, and
- other safety measures that may be utilized in an active shooter or hostile threat situation that occurs in any classroom or other area where students are located for a finite period of time.

School Safety Sub-Workgroup Timeline (2018 Cycle)

- **February - March 2019** - School Safety Sub-workgroup formed
- **April - August 2019** - School Safety Sub-workgroup convened
- **October 2019** - BHCD approved proposal B108.1-18
- **December 2020** - BHCD approves final 2018 USBC and SFPC
- **July 1, 2021** - 2018 USBC and SFPC effective

2018 IBC code sections

1010.1.4.4 Locking arrangements in educational occupancies. In Group E and Group B educational occupancies, egress doors from classrooms, offices and other occupied rooms shall be permitted to be provided with locking arrangements designed to keep intruders from entering the room where all of the following conditions are met:

1. The door shall be capable of being unlocked from outside the room with a key or other approved means.
2. The door shall be openable from within the room in accordance with Section 1010.1.9.
3. Modifications shall not be made to listed panic hardware, fire door hardware or door closers.

1010.1.4.4.1 Remote operation of locks. Remote operation of locks complying with Section 1010.1.4.4 shall be permitted.

2018 School Safety Sub-workgroup

- Four all day meetings held
- Multiple code change proposals and versions considered
- Ultimately, full consensus not reached on any proposal
- Two proposals (options) submitted for BHCD consideration
 - B108.1-18: compliance path in VCC for “emergency supplemental hardware”
 - BO101.1: add VCC appendix (for local adoption) that includes compliance path for “emergency supplemental hardware”

Proposal B108.1-18 (Approved)

- “Emergency supplemental hardware” allowed when in compliance with specific conditions for approval
- Emergency supplemental hardware allowed in Group E occupancies (except Group E day care facilities) & Group B educational occupancies
- Proponents: Virginia Building & Code Officials Association; Virginia Department of Education; Augusta County Public Schools; American Institute of Architects (AIA) Virginia; Virginia Tech.
- Approved emergency supplemental hardware requirements for schools included in 2018 USBC and SFPC (effective July 1, 2021)

Proposal BO101.1-18 (Not Approved)

- Technical requirements for emergency supplemental hardware similar to requirements of proposal B108.1-18
- Would have resulted in emergency supplemental hardware being allowed in some localities (where appendix adopted) but not in others
- Proponents: Steven Sites, Virginia Department of Fire Programs; Virginia Fire Prevention Association (VFPA); and Linda Hale (Loudoun County)

SB 333 and HB 670 direct DHCD to convene stakeholders to develop USBC and SFPC proposals with the goal of assisting in the provision of safety and security measures for the Commonwealth's public buildings for active-shooter or hostile threats.

SB 333 and HB 670

- Develop proposals for changes to the USBC and SFPC for submission to the Board of Housing and Community Development
 - Proposals to provide safety and security measures for “public buildings” for active-shooter or hostile threats.
 - Proposals to maintain compliance with basic ADA accessibility requirements
- Include examination of door locking devices, barricade devices, and other safety measures on doors and windows for the purpose of preventing both ingress and egress in the event of a threat to the physical security of persons in such buildings

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Virginia and ICC Code books!**



2018 USBC

New term defined:

EMERGENCY SUPPLEMENTAL HARDWARE. Any approved hardware used only for emergency events or drills to keep intruders from entering the room during an active shooter or hostile threat event or drill.

2018 USBC

Section 108.1 When applications are required. Application for a permit shall be made to the building official and a permit shall be obtained prior to the commencement of any of the following activities....

1. Construction or demolition of a building or structure. Installations or alterations involving (iv) the alteration of any required means of egress system, including the addition of emergency supplemental hardware,.....

2018 USBC

Consultation and notification requirements added:

110.1.1 Consultation and notification. Prior to approval of emergency supplemental hardware, the building code official shall consult with the local fire code official, or state fire code official if no local fire code official exists, and head of the local law-enforcement agency. The local fire code official; the state fire code official; and the local fire, EMS, and law-enforcement first responders shall be notified of such approval, after approval of such emergency supplemental hardware by the building code official.

2018 USBC

General (amended 2018 IBC Section 1010.1.4.4)

1010.1.4.4 Locking arrangements in educational occupancies. In Group E occupancies, except Group E day care facilities, and Group B educational occupancies, exit access doors from classrooms, offices, and other occupied rooms, except for exit doors and doors across corridors, shall be permitted to be provided with emergency supplemental hardware where all of the following conditions are met:

2018 USBC

Seven general conditions

1. The door shall be capable of being opened from outside the room with a key, proprietary device provided by the manufacturer, or other approved means.
2. The door shall be openable from within the room in accordance with Section 1010.1.9, except emergency supplemental hardware is not required to comply with Chapter 11.

Note: School officials should consult with their legal counsel regarding provisions of the Americans with Disabilities Act of 1990 (42 USC § 12101 et seq.) and any other applicable requirements.

2018 USBC

Seven general conditions

3. Installation of emergency supplemental hardware on fire door assemblies must comply with Section 716.2. Modifications shall not be made to listed panic hardware, fire door hardware, or door closures.
4. The emergency supplemental hardware shall not be capable of being used on other doors not intended to be used and shall have at least one component that requires modification to, or is permanently affixed to, the surrounding wall, floor, door, or frame assembly construction for it to properly function.

2018 USBC

Seven general conditions

5. Employees shall engage in lockdown training procedures on how to deploy and remove the emergency supplemental hardware, and its use shall be incorporated in the approved lockdown plan complying with the SFPC.
6. The emergency supplemental hardware and its components shall be maintained in accordance with the SFPC.

2018 USBC

Seven general conditions (continued)

7. Approved emergency supplemental hardware shall be of consistent type throughout a building.

Exception: The building official may approve alternate types of emergency supplemental hardware in accordance with Section 110.1 when a consistent device cannot be installed.

2018 USBC

ESH related amendments to general VCC requirements:

1010.1.9 Door operations - Prohibits a key or special knowledge being required for egress

- Exception for ESH provided in accordance with Section 1010.1.4.4

1010.1.9.1 Hardware - Prohibits tight grasping, pinching or twisting of wrist to operate

- Exception for ESH provided in accordance with Section 1010.1.4.4

1010.1.9.2 Hardware height - Requires hardware 34" minimum to 48" maximum above floor

- ESH shall be installed 48" maximum above the finished floor (can be installed below 34")

2018 USBC

ESH related amendments to general VCC requirements (cont.):

1010.1.9.4 Locks and latches - Conditions where locks and latches are permitted to prevent operation of doors

- New item #7 added for doors equipped with ESH in accordance with Section 1010.1.4.4

“7. Egress doors equipped with emergency supplemental hardware complying with Section 1010.1.4.4, from the egress side provided:

7.1. A readily visible durable sign is posted on the egress side on or adjacent to the door stating: THIS HARDWARE SHALL BE USED BY AUTHORIZED PERSONNEL ONLY. The sign shall be in letters 1 inch (25 mm) high on a contrasting background.

7.2. The use of the emergency supplemental hardware is revocable by the building official or fire official for due cause.”

2018 USBC

ESH related amendments to general VCC requirements (cont.):

1010.1.9.5 Bolt locks - Prohibits manually operated flush bolts or surface bolts

- Exception added for ESH provided in accordance with Section 1010.1.4.4

1010.1.9.6 Unlatching - The unlatching of any door or leaf shall not require more than one operation

- Exception added to allow one additional operation for release of emergency supplemental hardware provided in accordance with Section 1010.1.4.4

1010.1.9.8 Delayed egress

- Exception added to clarify that ESH shall not be considered a delayed egress locking system

2018 USBC

ESH related amendments to general VCC requirements (cont.):

1103.2 General exceptions - Existing section includes exemptions from VCC Chapter 11 (accessibility requirements)

- New Section 1103.2.15 added

1103.2.15 - In Group E occupancies, except Group E day care facilities, and Group B educational occupancies, when emergency supplemental hardware is deployed during an active shooter or hostile threat event and provided in accordance with Section 1010.1.4.4.

2018 SFPC

New term defined:

EMERGENCY SUPPLEMENTAL HARDWARE. Any approved hardware used only for emergency events or drills to keep intruders from entering the room during an active shooter or hostile threat event or drill.

2018 SFPC

404.2.3.1 Lockdown plan contents - Section lists items to be included in lockdown plans

- Item 4.4 amended to ensure lockdown plan also includes description of how locking (during initiation of a lockdown) complies with VCC

2018 SFPC

New Section 406.3.4.1 added

406.3.4.1 Emergency supplemental hardware training. Where a facility has installed approved emergency supplemental hardware, employees shall be trained on their assigned duties and procedures for the use of such device. Records of in-service training shall be made available to the fire code official upon request.

2018 SFPC

New Section 1001.4 added

1001.4 Unauthorized use of emergency supplemental hardware. No person shall utilize any approved emergency supplemental hardware to prevent the ingress or egress from any occupied space.

Exceptions:

1. Utilized by authorized persons or other persons occupying such space in the event of any actual or perceived hostile threat or active shooter event.
2. Utilized in conjunction with any approved lockdown drill requiring the utilization of the approved emergency supplemental hardware.
3. Utilization for the testing, use and training by emergency response personnel.

Where such device is utilized in accordance with the Exceptions 1 through 3 above, the hardware device shall be removed immediately following the conditions of such exceptions.

2018 SFPC

Section 1010.1.9 amended

1010.1.9 Door operations. Except as specifically permitted by this section or the applicable building code, egress doors shall be readily openable from the egress side without the use of a key or special knowledge or effort.

2018 SFPC

Section 1010.1.9.4 amended

1010.1.9.4 Locks and latches. Where required, a readily visible durable sign is posted on the egress side on or adjacent to the door stating:

THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED.

The sign shall be in letters 1 inch (25 mm) high on a contrasting background.

Emergency supplemental hardware provided in accordance with the applicable building code shall be provided a readily visible durable sign posted on the egress side on or adjacent to the door stating:

THIS HARDWARE SHALL BE USED BY AUTHORIZED PERSONNEL ONLY.

The sign shall be in letters 1 inch (25 mm) high on a contrasting background.

2018 SFPC

Section 1031.2 amended

1031.2 Reliability. Unless otherwise permitted by the applicable building code, required exit accesses, exits and exit discharges shall be continuously maintained free from obstructions or impediments to full instant use in the case of fire or other emergency where the building area served by the means of egress is occupied. An exit or exit passageway shall not be used for any purpose that interferes with a means of egress.

2018 SFPC

New Section 1031.10 added

1031.10 Maintenance of emergency supplemental hardware. Emergency supplemental hardware shall be installed in accordance with the applicable building code and shall be maintained in accordance with this code and the manufacturer's instructions. The fire code official shall be authorized to direct the practical application of any such hardware device to ensure the device operates as designed, and is free from any defects, damage, or conditions which may restrict the deployment and removal of such hardware device.

Develop and submit USBC and SFPC code change proposals:

- **Public Buildings** - Determine buildings to include
- **Other devices and measures** - Identify and consider various devices or safety measures for doors and windows
- **ADA:** Ensure that any proposals address compliance with basic ADA accessibility requirements

- Study group members will not be expected to join, as a proponent, any code change proposal that they do not support.
- Any code change proposals developed by the group will be submitted with information clearly identifying any members in support.
- Any proposals will be submitted in cdpVA for further review by all stakeholders
- Any proposals will be discussed by the General Stakeholder Workgroup(s) to determine a workgroup recommendation, prior to being considered by the BHCD
- Nothing prevents anyone (study group members or other interested parties) from submitting their own code change proposal(s) related to barricade devices



Prior to the next meeting, please:

- **Review existing code requirements and reach out to other members and/or DHCD staff with any questions**
- **Identify other devices or measures for doors and windows for review**
 - Please provide information to DHCD by December 20th
- **Identify and provide other helpful/relevant information (reports, data, etc.) for review**
 - Please provide to DHCD by December 20th

Note: If any member wants to share information with the group between meetings, please send it to DHCD staff and we will distribute it to our email list to make sure we do not miss any interested parties that might be added to our list as we go along.

Next Meeting (Virtual)

January 5, 2021

9:00 am - 3:00 pm

(lunch break 12:00 pm -1:00 pm)

Link: <https://vadhcd.adobeconnect.com/va2021cdc/>



Division of Building and Fire Regulations

State Building Codes Office

sbco@dhcd.virginia.gov

804-371-7150



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